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1. < Redshift: Automate an Alert to WORKMSMGR Object Owners when Total Capacity is greater than the parameter (once a day)>

Release Note Document

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| --- | --- |
| PROJECT CODE: | <Project Code> |
| DEPLOYMENT INSTRUCTIONS |  |
| PROJECT MANAGER | Kotesh Cheruku |
| DEVELOPERS | Chander M Singh |
| DATE | 5/17/2016 |

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# Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| VERSION | DATE | AUTHOR | CHANGE DESCRIPTION |
| 1.0 | 05/10/2016 | Chander M Singh | This script will trigger a space check on schema passed as parameter.  It will send an Alert to schema Object Owners when Total Capacity is passed as parameter or greater (once a day)  1. When total Redshift Cluster reaches <parameter>/70% or greater  2. Send out a report once a day containing a listing of the user owned objects in the database on the REdshift Cluster  3. Report contain listing of owner, object name and size  4). Report also contain list of all the objects , owner and size  5). Distribution of the information is to object owners only  6) The report is attached to email and in csv format. |
|  |  |  |  |
|  |  |  |  |

# Deployment Overview

## Short Description

This script will trigger a space check on schema passed as parameter. It will send an Alert to schema Object Owners when Total Capacity is passed as parameter or greater (once a day)

1). When total Redshift Cluster reaches <parameter>/70% or greater

2). Send out a report once a day containing a listing of the user owned objects in the workmsmgr database on the REdshift Cluster

3). Report should contain listing of owner, object name and size

4). Report also contain list of all the objects, owner and size

5). Distribution of the information is to object owners only

6). The report is in csv format.

## Source Details

|  |  |  |  |
| --- | --- | --- | --- |
|  | Source Object Name | Environment/Source | Source Type |
| Source  *Lists* |  | EC2 Instances |  |
| Production | CVLPAWSBIS1.cablevision.com | Production |
|  |  |  |
| UAT/DEV | cvluawsbisam1 | UAT/DEV |

## Target Details

|  |  |  |  |
| --- | --- | --- | --- |
|  | Target Object Name | Environment/Target | Target Type |
| Target  *Lists* |  | Redhsift clusters :  All : UAT, PRODUCTION, DEV |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Scheduling

|  |  |
| --- | --- |
|  |  |
| Scheduling | Refer to Appworx Spreadsheet. |

|  |  |  |
| --- | --- | --- |
| SCRIPT NAME | SCRIPT LOCATION | LABEL |
| \* redshift-id-pass  \* cluster\_space\_check.sh  \* spacecheck.sql  \* space\_check.sh  \* email\_users\_for\_space.sh  \* schemasizecheck.sql.bak  \* schemasizecheck.sql  \* SERVER\_LOGS | SCRIPT LOCATION | 1.0 |
|  | /pvcsapp/data/CorpIS\_A\_H/work/EDM\_DMIS/AutoOps/AM |  |

# Deployment Instructions

## Table/Repository Backups Required

List any objects that require backup. If no objects required, indicate with an “N/A”.

|  |  |  |  |
| --- | --- | --- | --- |
| STEP # | DESCRIPTION | DURATION | PERFORMED BY |
| 1. | N/A |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |

## Production Pre-Deployment Dependencies

List any chain, modules or processes that must be completed prior to the production deployment. If none, indicate with an “N/A”.

|  |  |  |  |
| --- | --- | --- | --- |
| STEP # | DESCRIPTION | DURATION | PERFORMED BY |
| 1. | N/A |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |

## Deployment Instructions (Steps Executed Sequentially, Unless Noted)

List steps by order of deployment. For multiple day deployments, document the steps in order by day of deployment. If steps are non-sequential, indicate as well.

|  |  |  |  |
| --- | --- | --- | --- |
| STEP # | GO-NO-GO | DATE / TIME | Rollback Steps |
| 1. |  | DATE/TIME | Reference section F |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| STEP # | DESCRIPTION | PROVIDE:   1. App Tool 2. Login@DBase | DURATION | DEV/APP ANALYST |
| 1. | To check space usage in one cluster:-  USAGE : **./cluster\_space\_check.sh Host\_Name \*, rs\_user\_name, rs\_user\_password, database\_name, port\_number, schema\_name, threshold\_warning\_percentage**  Or To check all the clusters mentioned in config file “**redshift-id-password”**  USAGE :**./cluster\_space\_check.sh ALL :**  **bash –x ./cluster\_space\_check.sh Host\_Name \*, rs\_user\_name, rs\_user\_password, database\_name, port\_number, schema\_name, threshold\_warning\_percentage**  **for Example:**  **./cluster\_space\_check.sh rsamd1.czfsgsdwh1wy.us-east-1.redshift.amazonaws.com csingh1 CSins\_1233v cvrsamd 5453 workmsmgr 70**   * **The scripts list :-** * **redshift-id-password** rsamd1:csingh1:CSinghv:cvrsamd:5453:workmsmgr:70 * **cluster\_space\_check.sh –**The main script * **spacecheck.sql -** Sql commands to check space * **space\_check.sh -** Script called by cluster\_space\_check.sh to calculate the space and email list for alerts * **email\_users\_for\_space.sh : Create an** email format and send report as csv attachment to object owners * **schemasizecheck.sql** – sql commands to check schema size. * **SERVER\_LOGS :** Server logs directory |  | 20 min | DBA |
| 2. | Complete App-Worx spreadsheet |  | 3 hour | AppSupport/DBA (onsite DBA should put cvadmin password in Appworx) |
| 3. |  |  |  |  |
| 4. | Go No-Go | 4 PM |  | DBA/ AppSupport |

## Initial History Load

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Initial/History Load Required** | **Yes** | **No** | **Archive Logging Disabled** | **Yes** | **No** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| STEP # | DESCRIPTION | PROVIDE:   1. App Tool 2. Login@DBase | DURATION | DEV/APP ANALYST |
| 1. |  |  |  |  |
| 2. |  |  |  |  |
| 3. |  |  |  |  |
| 4. |  |  |  |  |

## Post-Deployment Verification

Steps to validate the deployment: This may include queries, test run in the UAT environment or other tasks to confirm the deployment was successful.

|  |  |  |  |
| --- | --- | --- | --- |
| STEP # | DESCRIPTION | DURATION | PERFORMED BY |
| 1. | Make sure the job completed successfully. | 30 | Admin |
| 2. | Logs created in **SERVER\_LOGS** directory to store the logs |  | Admin |
| 3. |  | 5 | Admin |
| 4. |  |  |  |

## Rollback Instructions (Required)

Instructions to rollback a deployment, should the post-deployment verification be unsuccessful.

|  |  |  |  |
| --- | --- | --- | --- |
| STEP # | DESCRIPTION | DURATION | PERFORMED BY |
| 1. | Connect (ssh ) to ec2 instances ( For prod CVLPAWSBIS1.cablevision.com “ : as dba  cd / /appbisam/DBA/scripts  rm redshift-id-password cluster\_space\_check.sh spacecheck.sql space\_check.sh email\_users\_for\_space.sh schemasizecheck.sql.bak schemasizecheck.sql  Create tar of log files for futher analysis  cd SERVER\_LOGS/ && tar -zcvf ../SERVER\_LOGS.tgz . && cd .. | 15 min | DBA |
| 2. | Delete Appworx job and chain | 20 min | AppSupport |
| 3. | Test step to validate that rollback is successful:  Connect (ssh ) to cvlpawsbis1.cablevision.com as rsdba  Run command below  **ls -la /appbisam/DBA/scripts**  **|grep -e “**cluster\_space\_check.sh **” -e | wc -l**  Expected result : 0 | 5 min | DBA |
| 4. |  |  |  |

## Post-Deployment Clean-Up

Process involves steps to remove temporary objects, files, scripts and any other non-permanent objects from the production server once the deployment has been validated and determined to be successful.

|  |  |  |  |
| --- | --- | --- | --- |
| STEP # | DESCRIPTION | DURATION | PERFORMED BY |
| 1. | N/A |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |